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*1-page prior art with Cover Sheet  
relating to Serial # 101692,927.*

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Practitioner's Docket No. 2002DE314

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**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Brand et al.

Application No.: 10/692,927

Group No.: 1626

Filed: 10/24/2003

For: Preparation of 1,3-DI-Halo-Substituted Benzene Derivatives

Commissioner for Patent

P.O. Box 1450

Alexandria, VA 22313-1450

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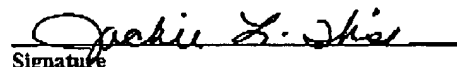
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XP009024664

[(1933)]

*as formic acid from aromatic aldehydes (I).*

1531b

asymm. (1,2,4-)trichlorobenzene of b.p. 74.2 211° (corr.) are obtained instead of 9.1 g, i.e. 88% of theory.

0.0884 g of substance: 0.2094 g of AgCl (Carius).

$C_6H_3Cl_3$  Calc. Cl 58.66. Found Cl 58.6.

- 5 In the course of cooling, the trichlorobenzene solidifies to a hard, colorless crystal mass which, after preceding softening at 14°, in agreement with the literature reports<sup>30)</sup>, melts between 16 and 17°.

- The formic acid determinations performed as above give 2.198 g and 2.214 g of calomel, i.e. 0.2148 g and 0.2164 g of formic acid, instead of 0.23 g, i.e. 93.4 and 94.1% of theory. Moreover, the formic acid can also be detected by its reducing action on silver nitrate solution, by the qualitative detection with resorcinol and sulfuric acid<sup>32)</sup> and by analysis of the barium salt. The above steam distillate is admixed with somewhat less than the calculated amount of barium hydroxide and concentrated by distillation. The distillate has an intense odor of chlorophenol, but only a very small residue can be obtained by ether extraction and evaporation. The concentrated solution is boiled with animal charcoal and filtered, and the filtrate is allowed to evaporate. The first crystal batches exhibit somewhat too low a barium content
- 10
- 15

20 <sup>32)</sup> Krauss and Tampke, Chem.-Ztg. 45, 521 [1921].